



## **Specification**

Invention Titled "Grease Zerk Dust Cap"

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## **Grease Zerk Dust Cap**

### **References to Related Applications**

There are no references to related applications.

### **Statements of Federal Sponsorship**

There are no statements of federal sponsorship.

### **References to "Sequence Listings"**

There are no references to sequence listings.

### **Background of the Invention**

The field of this invention includes agricultural, industrial, and automotive industries, and any other application where grease zerks are utilized.

Grease zerks are used to periodically lubricate a component such as a bearing, bushing or shaft. The zerk is fastened to the component with a threaded base which screws into the component. A tool commonly known as a grease gun is affixed to the zerk and grease is forced through the zerk into the component. When the grease gun is removed, residual grease is left on the zerk. During operation of the machine, airborne particles accumulate on the residual grease on the zerk. Before the next lubrication, a person must carefully wipe the accumulated matter from the zerk before greasing. If this is not done, the matter which has accumulated on the zerk is injected into the component and damages it. In some cases, high-velocity particles continually strike the zerk, wearing metal from it. This prevents effective greasing because the grease leaks past the worn area instead of being injected into the component through the zerk. Grit also accumulates around the check ball area in the zerk and is very difficult to remove. Often this grit is injected directly into the component during greasing. The presence of water is another reason to keep a grease zerk protected. Water leads to rust on the zerk and the check ball inside it, causing the zerk to leak grease back out of the component during machinery operation. These problems are the reason I have devised the grease zerk dust cap.

**Prior Art**

There is no known prior art.

**Summary of the Invention**

The grease zerk dust cap is a protective cover affixed to a grease zerk to keep it free of unwanted matter and protect it from adverse operating conditions as described previously.

**Description of Drawings**

FIG 1 shows a grease zerk dust cap in its entirety in the form of a side view cutaway.

**Detailed Description of the Invention**

The grease zerk dust cap is a protective cover for a grease zerk to keep it free of unwanted matter. It is composed of a flexible material that is resistant to various chemicals, heat, cold and ultraviolet radiation. It is a single piece unit with two opposing ends, each end having a flare. The end with the larger flare has a bore to accept a grease zerk. Inside the bore is a retaining surface to prevent the cap from becoming dislodged from the zerk due to centrifugal force, such as on a rotating shaft. The retaining surface rests in the neck of the zerk. The flare on the end of the cap having the bore scrapes residual grease from the zerk when it is affixed to the zerk after greasing. On the remaining end of the cap is a domed flare. This flare provides a quick and convenient way to grip and remove the cap with the fingers of the human hand. FIG 1 shows a grease zerk dust cap in its entirety, in the form of a side view cutaway.